

FIGURE 3 (1)

ATGGCCCAAGCCCTGCCCTGGCTCCTGCTGTGGATGGGCGGGGAGTGTGCTGCCAC
M A Q A L P W L L L W M G A G V L P A H
GGCACCAGCAGGATCCGGCTGCCCTGGCAGCGGCTGGGGGCGCCCCCTGGGG
G T Q H G I R L P L R S G L G G A P L G
CTGGGCTGCCCGGGAGACCGACGAAGAGCCCGAGGAGCCCGGGCGGAGGGGAGCTTT
L R L P R E T D E E P E E P G R R G S F
GTGGAGATGGTGACAACCTGAGGGGCAAGTCGGGGCAGGGCTACTACGTGGAGATGACC
V E M V D N L R G K S G Q G Y Y V E M T
GTGGGCAGCCCCCGCAGACGCTCAACATCCTGGTGGATACAGGCAGAGTAACCTTGCA
V G S P P Q T L N I L V D T G S S N F A
GTGGGTCTGCCCCCACCCTTCCTGCATCGCTACTACCAGAGGCAGCTGTCCAGCACA
V G A A P H P F L H R Y Y Q R Q L S S T
TACCGGACCTCCGGAAGGGTGTGTATGTGCCCTACACCCAGGGCAAGTGGGAAGGGGAG
Y R D L R K G V Y V P Y T Q G K W E G E
CTGGGCACCGACCTGTAAGCATCCCCATGGCCCCAACGTCACTGTGCGTCCCAACATT
L G T D L V S I P H G P N V T V R A N I
GCTGCCATCACTGAATCAGACAAGTTCTTCATCAACGGCTCCAAGTGGGAAGGCATCTG
A A I T E S D K F F I N G S N W E G I L
GGGCTGGCCTATGCTGAGATTGCCAGGCCTGACGACTCCCTGGAGCCTTTCTTTGACTCT
G L A Y A E I A R P D D S L E P F F D S
CTGGTAAAGCAGACCCACGTTCCCAACCTCTTCCTCCCTGCAGCTTTGTGGTGTGGCTTC
L V K Q T H V P N L F S L Q L C G A G F
CCCCCTCAACCACTCTGAAGTGTGGCCTCTGTGGAGGGAGCATGATCATTGGAGGTATC
P L N Q S E V L A S V G G S M I I G G I
GACCACTCGCTGTACACAGGCAGTCTCTGGTATACACCCATCCGGCGGSAGTGGTATTAT
D H S L Y T G S L W Y T P I R R E W Y Y
GAGGTCACTATTGTGGGGTGGAGATCAATGGACAGGATCTGAAATGGACTGCAAGGAG
E V I I V R V E I N G Q D L K M D C K E
TACAACTATGACAAGAGCATTTGTGGACAGTGGCACCACCAACCTTCGTTTGCCCAAGAAA
Y N Y D K S I V D S G T T N L R L P K K
GTGTTTGAAGCTGCAGTCAATCCATCAAGGCAGCCTCCTCCACGGAGAAGTTCCTGAT
V F E A A V K S I K A A S S T E K F P D

FIGURE 3 (2)

GGTTTCTGGCTAGGAGAGCAGCTGGTGTGCTGGCAAGCAGGCACCACCCCTTGGAAACATT
G F W L G E Q L V C W Q A G T T P W N I
TTCCCAAGTCATCTCACTCTACCTAATGGGTGAGGTTACCAACCAGTCCTTCCGCATCACC
F P V I S L Y L M G E V T N Q S F R I T
ATCCTTCCGCAGCAATACCTGCGGCCAGTGGAAGATGTGGCCACGTCCTCAAGACGACTGT
I L P Q Q Y L R P V E D V A T S Q D D C
TACAAGTTTGCCATCTCACAGTCATCCACGGGCACCTGTTATGGGAGCTGTTATCATGGAG
Y K F A I S Q S S T G T V M G A V I M E
GGCTTCTACGTTGTCTTTGATCGGGCCCCGAAAACGAATTGGCTTTGCTGTCTCAGCGCTTGC
G F Y V V F D R A R K R I G F A V S A C
CATGTGCACGATGAGTTTCAGGACGSCAGCGGTGGAAGGCCCTTTTGTACCTTGGACATG
H V H D E F R T A A V E G P F V T L D M
GAAGACTGTGGCTACAACATTCACAGACAGATGAGTCAACCCCTCATGACCATAGCCTAT
E D C G Y N I P Q T D E S T L M T I A Y
GTCATGGCTGCCATCTGCGCCCTCTTCATGCTGCCACTCTGCCCTCARGGTGTGTCASTGG
V M A A I C A L F M L P L C L M V C Q W
CGCTGCCCTCCGCTGCCCTGCGCCAGCAGCATGATGACTTTGCTGATGACATCTCCCTGCTG
R C L R C L R Q Q H D D F A D D I S L L
AAGTGAGGAGGCCCATGGGCAGAAGATAGAGATTCCCCTGGACCACACCTCCGTTGTTCA
K
CTTTTGTCAACAAGTAGGAGACACAGATGGCACCTGTGGCCAGAGCACCTCAGGACCCCTCC
CCACCCACCAATGCCTCTGCTTGTATGGAGAAGGAAAAGGCTGGCCAGGTGGGTTCAG
GGATGTACCTGTAGGAAACAGAAAAGAGAAAGAAAGCACTCTGCTGCGCGGAATACT
CTTGCTCACTCAAATTTAAGTCGGGAAATTCCTGCTGCTTGAAACTTCAGCCCTGAACCT
TTGTCCACCATTCCTTTAAATTCCTCAACCCAAAGTATTCTTCTTTCTTAGTTTCAGAA
GTACTGGCATCACACGCAGGTTACCTTGGCGTGTGTCCCTGTGTTACCTTGCAGAGAAG
AGACCAAGCTTTGTTTCCCTGCTGGCCAAAGTCAGTAGGAGAGGATGCACAGTTTGTCTATT
TGCTTTAGAGACAGGGACTGTATAACAAGCCTAACATTGGTGCAAGATTGCCTCTTGA
ATTAAAAA

FIGURE 4

ATGGCCCCAGCGCTGCACTGCTCCTGCTATGGGTGGGCTCGGGAATGCTGCTGCCAG
 M A P A L M W L L L W V G S G M L P A Q
 GGAATCCATCTGGCATCCGCTGCCCTTCGACGGGCTGGCAGGCTCAGCCCTGGC
 G T H L G I R L P L R S G L A C P P L C
 CTGAGGCTGCCCCGGGAGACTGACGAGGAATCGGAGGACCTGCCCCGAGAGGCGCTTT
 L R L P R E T D E E S E E P G R R G S F
 GTGGAGATGCTGACAACTGAGGGGAAGTCCGGCCAGGGCTACTATGTGGAGATGACC
 V E M V L N L P G K S G Q G Y Y V E M T
 GTAGGCGAGCCCCACAGAGCTCAACATCCTGGTGGACACGGGCGACTAGTAACCTTTGCA
 V G S P P Q T L N I L V D T G S S N F A
 GTGGGGCTGCCCTCAGACCTTCTGCTGCTACTACAGAGGCGAGCTGTCAGGCACA
 V G A A P E P F L H R Y Y Q R Q L S S T
 TA TGAAGCTCCGAAAGGGTGTGTATGTGCTTACACCCAGGGCAAGTGGGAGGGGAA
 Y R D L R K G V Y V P Y T Q G K W E G E
 CTGGGCGAGGCTGGTGGAGCTCCCTCATGGCCCCAACGTCACTGTGCTGCTGCAACAT
 L G C T D L V S I P H G P N V T V R A N I
 GCTGCTCACTGAATCGGACAAGTCTTCATCAATGCTTCAACTGGGAGGGGCACTCTA
 A A I T E S D K F F I N G S N W E G L
 GGGCTGGCTATGCTGAGATGCCAGGCCCCGACGACTCTTTGGAGCCCTTTTGTACTCC
 G I A Y A E I A R P D E S L E P F F D S
 CTGGTAGGCGAGCCACATTCCTCAACATCTTTTCTGCTGAGCTCTGTGGCGCTGGCTTC
 L V R Q T H I P N I F S L Q L C G A G P
 CCCCCTACAGCAGCGAGGCGACTGGGCTCGGTGGGAGGCGAGCATGATCATGCTGCTATC
 P I N Q T E A L A S V G G S M I G G I
 GACCACTCGCTATACAGGCGACTCTCTGTGTACACCCATCTGGGCGGAGTGGTATTAT
 D P S L Y T G S L W Y T P I R R E W Y Y
 GAAGTGAATCTGTACCTGTGGAATCAATGTCAAGATCTCAAGATGAGCTGCAAGGAG
 E V I I V R V E I N G C D L K M D C K E
 TACAACTACGACAAGGAGCTGTGGAGCTGGGACACCACTTCTGCTTCCCCAAGAAA
 Y N Y D K S I V D S G T T N L R L P K K
 GTATTGAGGCTGGCTCAATCCATCAAGGCGCTCTCTGAGCGGAGAAGTCTCCGAT
 V F E A A V K S I K A A S S T E K F P D
 CCGTTTCTGCTACCGGACCACTGCTGTGCTGGCAAGCAGGCGACGACCCCTTGGAAACAT
 G F W L G E Q L V C W Q A G T T P W N I
 TTTCCAGTCATTTCATTATCTCATGGGTGAAGTACCAATCACTCTTCCGATCACC
 F P V I S L Y L M G E V T N Q S F R I T
 ATCTCTCTCAGCAATACCTACGGCCGCTGGAGGAGCTGGCCACGTCCTCAAGACGACTGT
 I L Q Q Q Y L R P V E D V A T S Q D D C
 TACAAGTTCGCTGTCTCACTCATCCAGGCGACTGTATGGGAGCCGCTCATCATGGA
 Y K F A V S Q S S T G T V M G A V I M E
 GGTTCCTATGCTGCTCTCGATCGAGCCCGAAGCGAATGGCTTTGCTGCTCAGCGCTTGC
 G F Y V V F D R A R K R I G F A V S A C
 CATGTGACGATGAGTTCAAGACGCGCGCAGTGGAGGCTCCGTTTGTACGGCAGACATG
 H V H D E F F T A A V E G P F V T A D M
 GAAGACTGTGGCTACAACATTCCTCAGACAGATGASTCAACACTTATGACCATAGCCCTAT
 E D C G Y N I P Q T D E S T L M T I A Y
 CTCATGCGCGCATCTGCGCCCTCTTCATGTTGCCACTCTGCTCATGCTATGCTCAGTGG
 V M A A I C A L F M L P L C L M V C Q W
 CGCAGCTGCGTTCCTGCGCCACGACGACGATGCTTTCATGATGACATCTCCCTGCTC
 R C L R C L R H Q H D D F A D D I S L L
 AAGTAAGGAGGCTCTGGGCGAGTGTGAGAGCCCTCTGGACCATCTGGGTGGTTC
 K
 CTTTGGTCAATGAGTTGGAGCTATGGATGCTACCTGTGGCCAGAGCACCTCAGGACCT
 CACCAACCTGCCAATGCTCTGCGCTGACAGAACAGAGAAATCAGGCAAGCTGGATTAC
 GGGCTTGCCTCTGTAGGACACAGGAGGAGAGGAGACAGCTTCTGTGGCAGGAATAT
 CTTAGGCACTCACAAGCTTCACTTGAATTTTCTGCTTGAAGCTTCAAGCTTCAAGCTT
 CTGCGCAGCATCTTTAGAGTCTCCAACTTAAAGTATTTCTTATGCTCTCCAGAGTAC
 TGGCTCATACTCAGGCTACCGGCTATGTCCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 AATCTCATTTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT
 TGTATGGGATGCGAGACTCAAGCTTACCTGCTACAAAGACTGCTGCTTGTAGATAACAA
 GAA